AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended): A display apparatus for performing gray scale display by dividing one field of ~~picture~~ an image into a plurality of weighted subfields and by controlling each subfield to one of emit ~~or~~ and not emit based on ~~the~~ a gray scale level of a pixel in the ~~picture~~ image, said apparatus comprising:

a ~~conversion unit~~ converter for selectively converting ~~a~~ the gray scale level of the pixel to one gray scale level in one of a first gray scale group ~~or~~ and one gray scale level in a second gray scale group, said first gray scale group including a plurality of gray scale levels to be used for actual display, the gray scale level in the first gray scale group being expressed by ~~the~~ a combination of the subfields, said second gray scale group including a plurality of gray scale levels each of which is interspersed in ~~the middle of~~ the gray scale levels in the first gray scale group; and

a first ~~diffusion unit~~ diffuser for generating a video signal, said video signal displaying a gray scale level obtained by the ~~conversion unit~~ converter when the gray scale level obtained by the ~~conversion unit~~ converter is in the first gray scale group, [[or]] and when the gray scale level obtained by the converter is in the second gray scale group, the diffuser generating a video signal displaying a gray

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scale level ~~in the first gray scale group which is~~ obtained by diffusing a

predetermined value corresponding to the gray scale level in the second gray scale

group ~~when the gray scale level obtained by the conversion unit is in the second~~

~~gray scale group~~.

2. (Currently amended): The apparatus according to claim 1, wherein the

first gray scale group includes gray scale levels each of which is achieved by

subfields in which there is no non-emitting subfields in subfields having weights

less than ~~the~~ a greatest weight among weights of the subfields to be emitted for

achieving the gray scale level.

3. (Currently amended): The apparatus according to claim 1, wherein the

first gray scale group includes gray scale levels each of which is achieved by

subfields in which there is at most one ~~of~~ non-emitting ~~subfields~~ subfield in the

subfields having weights less than ~~the~~ a greatest weight among weights of the

subfields to be emitted for achieving the gray scale level.

4. (Currently amended): The apparatus according to claim 1, wherein the

first gray scale group includes gray scale levels each of which is achieved by

subfields in which there is at most two ~~of~~ non-emitting subfields in subfields

having weights less than ~~the~~ a greatest weight among weights of the subfields to

be emitted for achieving the gray scale level.

5. (Currently amended): The apparatus according to claim 2, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight.

6. (Currently amended): The apparatus according to claim 3, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight.

7. (Currently amended): The apparatus according to claim 4, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight.

8. (Currently amended): The apparatus according to claim 2, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight and a subfield having ~~the~~ a next succeeding minimum weight.

9. (Currently amended): The apparatus according to claim 3, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight and a subfield having ~~the~~ a next succeeding minimum weight.

10. (Currently amended): The apparatus according to claim 4, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight and a subfield having ~~the~~ a next succeeding minimum weight.

11. (Currently amended): The apparatus according to claim 2, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight, a subfield having ~~the~~ a next succeeding minimum weight and a subfield having ~~the~~ a third succeeding minimum weight.

12. (Currently amended): The apparatus according to claim 3, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight, a subfield having ~~the~~ a next succeeding minimum weight and a subfield having ~~the~~ a third succeeding minimum weight.

13. (Currently amended): The apparatus according to claim 4, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight, a subfield having ~~the~~ a next succeeding minimum weight and a subfield having ~~the~~ a third succeeding minimum weight.

14. (Currently amended): The apparatus according to claim 1, wherein the first ~~diffusion unit~~ diffuser generates the video signal to display the gray scale level in the first gray scale group which is obtained by one of adding ~~or~~ and subtracting ~~the~~ a value corresponding to the gray scale to be displayed to or from the gray scale level in the second gray scale group when the converted gray scale level from the gray scale ~~conversion unit~~ converter is in the second gray scale group.

15. (Currently amended): The apparatus according to claim 1, further comprising a second ~~diffusion unit~~ diffuser for diffusing a difference between the gray scale level of a pixel to be displayed and the converted gray scale level to pixels adjacent to the pixel to be displayed with a predetermined ratio.

16. (Currently amended): The apparatus according to claim 15, wherein the second ~~diffusion unit~~ diffuser determines a value to be diffused in a vertical direction based on a value obtained by removing the lower bits from a difference between the gray scale level of the pixel to be displayed and the converted gray scale level.

17. (Currently amended): A display method for performing gray scale display by dividing one field of ~~picture~~ an image into a plurality of weighted subfields and by controlling each subfield to one of emit ~~or~~ and not emit based on ~~the~~ a gray scale level of a pixel in the ~~picture~~ image, said method comprising:

selectively converting a gray scale level of the pixel to one of a gray scale level in a first gray scale group ~~or~~ and a ~~one~~ gray scale level in a second gray scale group, said first gray scale group including a plurality of gray scale levels ~~to be used~~ for actual display, the gray scale level in the first gray scale group being expressed by ~~the~~ a combination of the subfields, said second gray scale group

including a plurality of gray scale levels each of which is <u>interspersed</u> in ~~the~~

~~middle of~~ the gray scale levels in the first gray scale group; and

generating <u>a</u> video signal, said video signal displaying a gray scale level

obtained by the conversion when the gray scale level obtained by the conversion is

in the first gray scale group, [[or]] <u>and when the gray scale level obtained by the</u>

<u>conversion is in the second gray scale group, generating a video signal displaying</u>

a gray scale level ~~in the first gray scale group~~ which is obtained by diffusing a

predetermined value corresponding to the gray scale level in the second gray scale

group ~~when the gray scale level obtained by the conversion is in the second gray~~

~~scale group~~.

18. (Currently amended): The method according to claim 17, wherein the

first gray scale group includes gray scale levels each of which is achieved by

subfields in which there is no non-emitting subfields in subfields having weights

less than ~~the~~ <u>a</u> greatest weight among weights of the subfields to be emitted for

achieving the gray scale level.

19. (Currently amended): The method according to claim 17, wherein the

first gray scale group includes gray scale levels each of which is achieved by

subfields in which there is at most one ~~of~~ non-emitting ~~subfields~~ <u>subfield</u> in

subfields having weights less than ~~the~~ <u>a</u> greatest weight among weights of the

subfields to be emitted for achieving the gray scale level.

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20. (Currently amended): The method according to claim 17, wherein the first gray scale group includes gray scale levels each of which is achieved by subfields in which there is at most two ~~of~~ non-emitting subfields in subfields having weights less than ~~the~~ a greatest weight among weights of the subfields to be emitted for achieving the gray scale level.

21. (Original): The method according to claim 18, wherein said non-emitting subfield excludes a subfield having the minimum weight.

22. (Original): The method according to claim 19, wherein said non-emitting subfield excludes a subfield having the minimum weight.

23. (Original): The method according to claim 20, wherein said non-emitting subfield excludes a subfield having the minimum weight.

24. (Currently amended): The method according to claim 18, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight and a subfield having the next succeeding minimum weight.

25. (Currently amended): The method according to claim 19, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight and a subfield having ~~the~~ a next succeeding minimum weight.

26. (Currently amended): The method according to claim 20, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight and a subfield having ~~the~~ a next succeeding minimum weight.

27. (Currently amended): The method according to claim 18, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight, a subfield having ~~the~~ a next succeeding minimum weight and a subfield having ~~the~~ a third succeeding minimum weight.

28. (Currently amended): The method according to claim 19, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight, a subfield having ~~the~~ a next succeeding minimum weight and a subfield having ~~the~~ a third succeeding minimum weight.

29. (Currently amended): The method according to claim 20, wherein said non-emitting subfield excludes a subfield having ~~the~~ a minimum weight, a subfield having ~~the~~ a next succeeding minimum weight and a subfield having ~~the~~ a third succeeding minimum weight.

30. (Currently amended): The method according to claim 17, wherein the ~~first diffusion unit generates~~ generating the video signal to display the gray scale level in the first gray scale group which is obtained by one of adding ~~or~~ and subtracting ~~the~~ a value corresponding to the gray scale to be displayed to or from the gray scale level in the second gray scale group when the converted gray scale level from the gray scale conversion is in the second gray scale group.

31. (Currently amended): The method according to claim 17, further comprising diffusing a difference between the gray scale level of a pixel to be displayed and the converted gray scale level to pixels adjacent to the pixel to be displayed with a predetermined ratio.

32. (Currently amended): The method according to claim 31, wherein the ~~second diffusion unit~~ diffusing determines a value to be diffused in a horizontal direction based on a lower bits of all bits which indicate the gray scale level of a pixel to be displayed, and a value to be diffused in a vertical direction based on a value obtained by removing the lower bits from a difference between the gray scale level of the pixel to be displayed and the converted gray scale level.